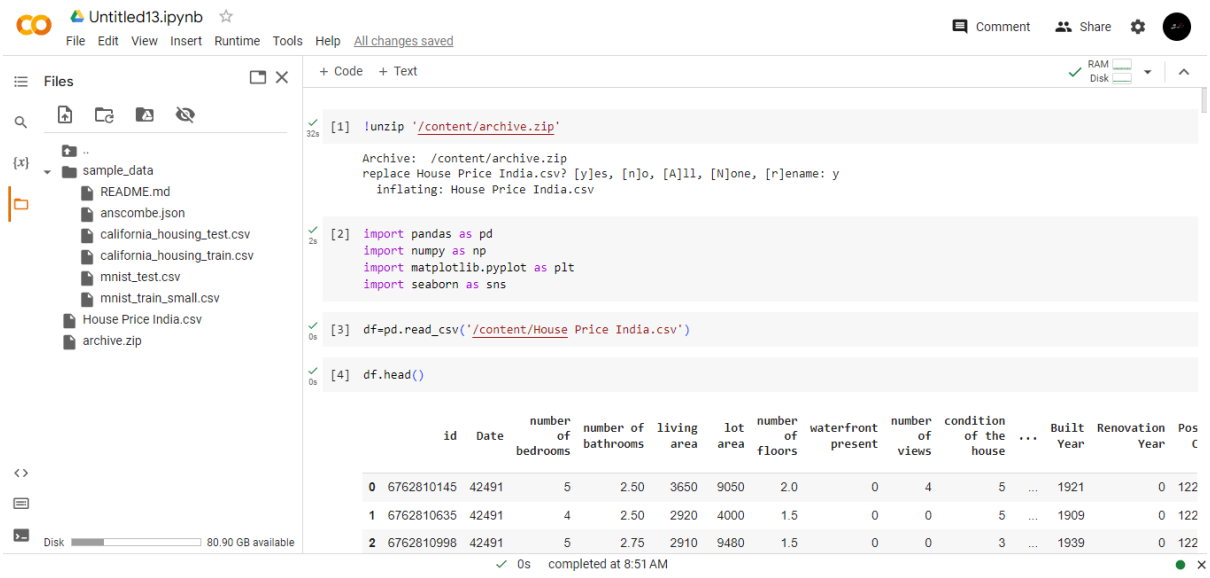
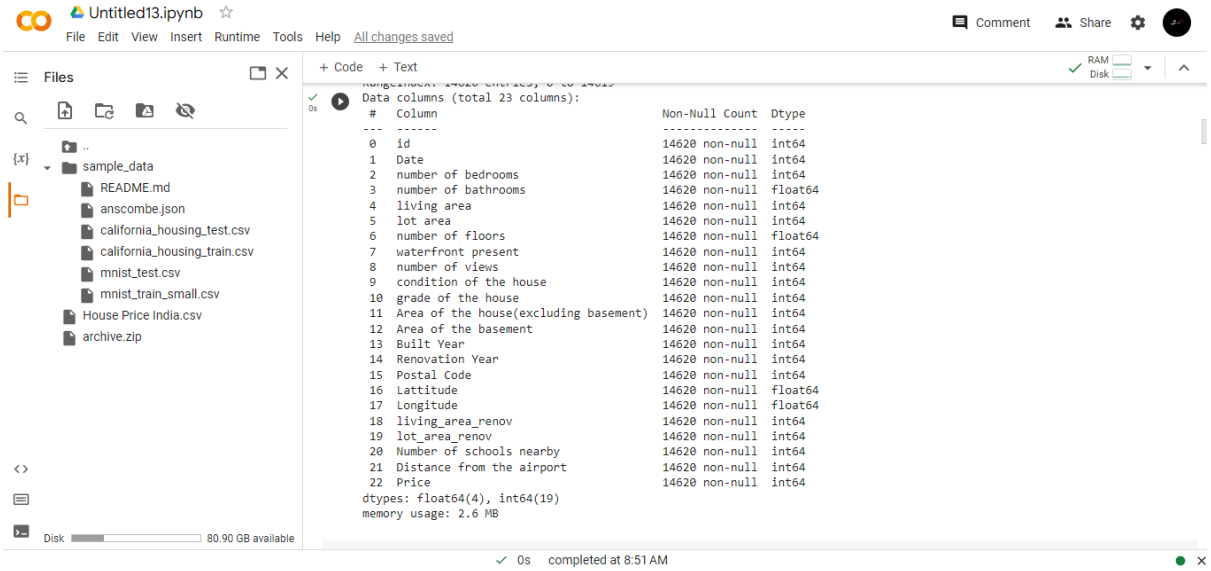
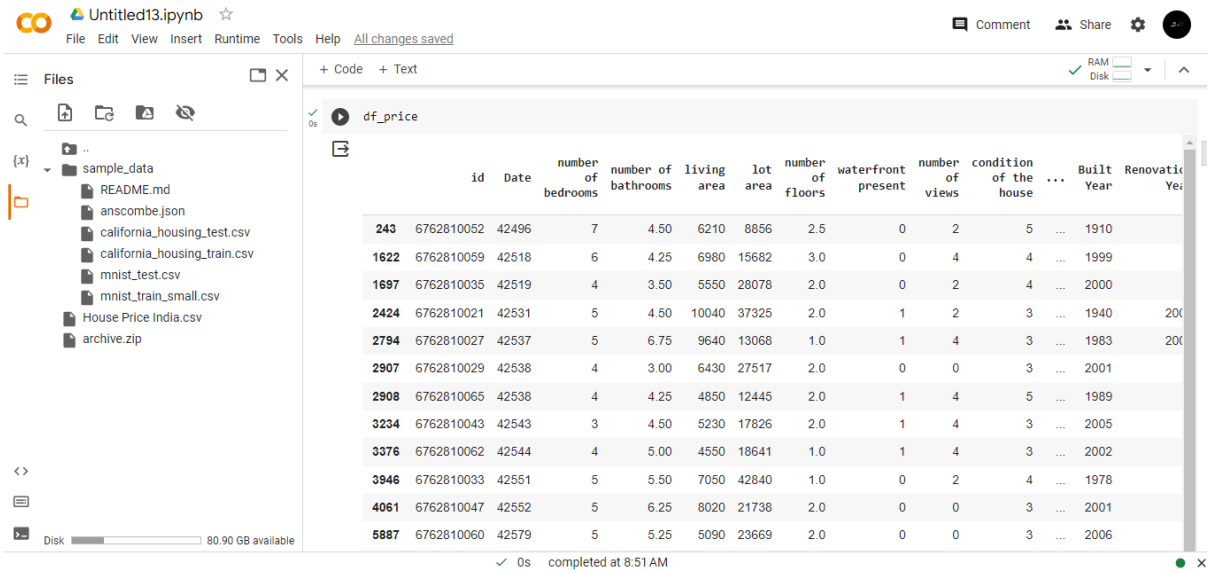
HOUSE PRICE INDIA

NAME : M SIVASAKTHI







	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views	condition of the house	...	Built Year	Renovati Ye
243	6762810052	42496	7	4.50	6210	8856	2.5	0	2	5	...	1910	
1622	6762810059	42518	6	4.25	6980	15682	3.0	0	4	4	...	1999	
1697	6762810035	42519	4	3.50	5550	28078	2.0	0	2	4	...	2000	
2424	6762810021	42531	5	4.50	10040	37325	2.0	1	2	3	...	1940	20(
2794	6762810027	42537	5	6.75	9640	13068	1.0	1	4	3	...	1983	20(
2907	6762810029	42538	4	3.00	6430	27517	2.0	0	0	3	...	2001	
2908	6762810065	42538	4	4.25	4850	12445	2.0	1	4	5	...	1989	
3234	6762810043	42543	3	4.50	5230	17826	2.0	1	4	3	...	2005	
3376	6762810062	42544	4	5.00	4550	18641	1.0	1	4	3	...	2002	
3946	6762810033	42551	5	5.50	7050	42840	1.0	0	2	4	...	1978	
4061	6762810047	42552	5	6.25	8020	21738	2.0	0	0	3	...	2001	
5887	6762810060	42579	5	5.25	5090	23669	2.0	0	0	3	...	2006	

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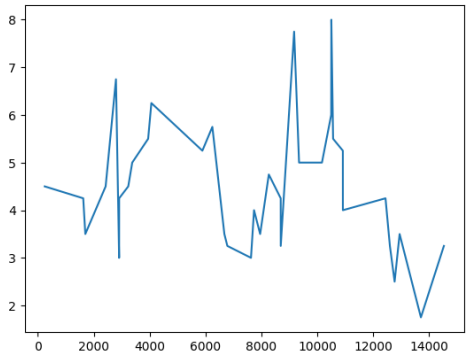
```
plt.plot(df_price['number of bathrooms'])
```

```
[<matplotlib.lines.Line2D at 0x7f1f1771e1d0>]
```



- ..
- sample_data
  - README.md
  - anscombe.json
  - california_housing_test.csv
  - california_housing_train.csv
  - mnist_test.csv
  - mnist_train_small.csv
- House Price India.csv
- archive.zip

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```
[10] plt.plot(df_price['number of bathrooms'],np.zeros_like(df_price['number of bathrooms']),'o')
```

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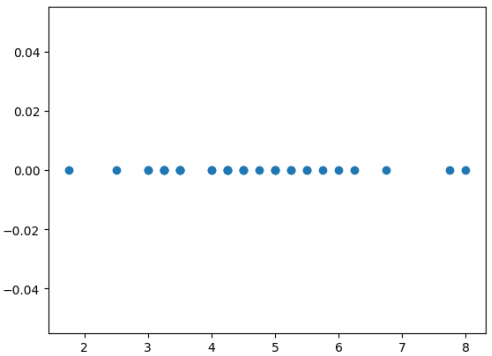
```
plt.plot(df_price['number of bathrooms'],np.zeros_like(df_price['number of bathrooms']),'o')
plt.xlabel('Number of floors')
```

```
Text(0.5, 0, 'Number of floors')
```



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```
[12] df_condition1 = df.loc[df['condition of the house']==10]
     df_condition2 = df.loc[df['condition of the house']==9]
     df_condition3 = df.loc[df['condition of the house']==8]
```

```
plt.plot(df_condition1['Price'],np.zeros_like(df_condition1['Price']),'o')
plt.plot(df_condition2['Price'],np.zeros_like(df_condition2['Price']),'o')
plt.plot(df_condition3['Price'],np.zeros_like(df_condition3['Price']),'o')
plt.show()
```

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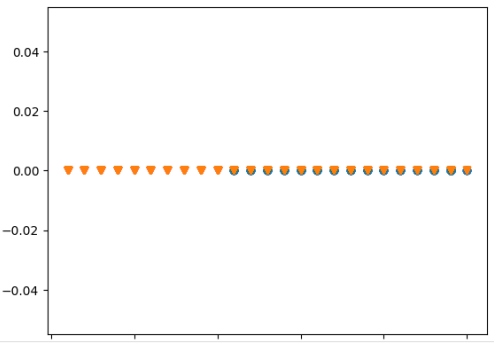
Connecting

```
plt.plot(df_ryear['Renovation Year'],np.zeros_like(df_ryear['Renovation Year']),'o')
plt.plot(df_year['Built Year'],np.zeros_like(df_year['Built Year']),'v')
#plt.show()
```

```
[<matplotlib.lines.Line2D at 0x7f1f174a3010>]
```



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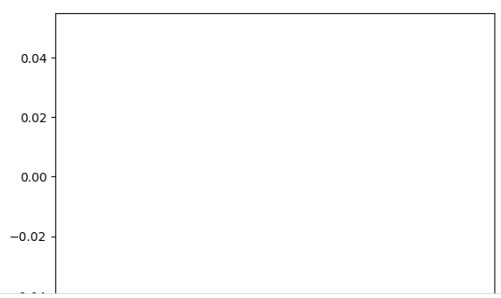
RAM Disk

```
[12] df_condition1 = df.loc[df['condition of the house']==10]
     df_condition2 = df.loc[df['condition of the house']==9]
     df_condition3 = df.loc[df['condition of the house']==8]
```

```
plt.plot(df_condition1['Price'],np.zeros_like(df_condition1['Price']),'o')
plt.plot(df_condition2['Price'],np.zeros_like(df_condition2['Price']),'o')
plt.plot(df_condition3['Price'],np.zeros_like(df_condition3['Price']),'o')
plt.show()
```



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```
plt.figure(figsize=(40,40))
sns.heatmap(df.corr(),annot=True)
plt.show()
```

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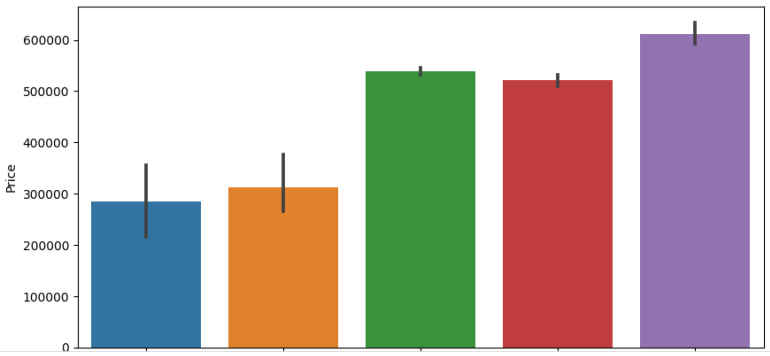
```
plt.figure(figsize=(10,5))
sns
sns.barplot(data=df,x='condition of the house',y='Price')
```

```
<Axes: xlabel='condition of the house', ylabel='Price'>
```



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```
df.describe()
```

	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	numb
count	1.462000e+04	14620.000000	14620.000000	14620.000000	14620.000000	1.462000e+04	14620.000000	14620.000000	14620.00
mean	6.762821e+09	42604.538646	3.379343	2.129583	2098.262996	1.509328e+04	1.502360	0.007661	0.23
std	6.237575e+03	67.347991	0.938719	0.769934	928.275721	3.791962e+04	0.540239	0.087193	0.76
min	6.762810e+09	42491.000000	1.000000	0.500000	370.000000	5.200000e+02	1.000000	0.000000	0.00
25%	6.762815e+09	42546.000000	3.000000	1.750000	1440.000000	5.010750e+03	1.000000	0.000000	0.00
50%	6.762821e+09	42600.000000	3.000000	2.250000	1930.000000	7.620000e+03	1.500000	0.000000	0.00
75%	6.762826e+09	42662.000000	4.000000	2.500000	2570.000000	1.080000e+04	2.000000	0.000000	0.00
max	6.762832e+09	42734.000000	33.000000	8.000000	13540.000000	1.074218e+06	3.500000	1.000000	4.00

8 rows × 23 columns

```
[17] df['number of bathrooms'].value_counts()
```

```
2.50    3678
```

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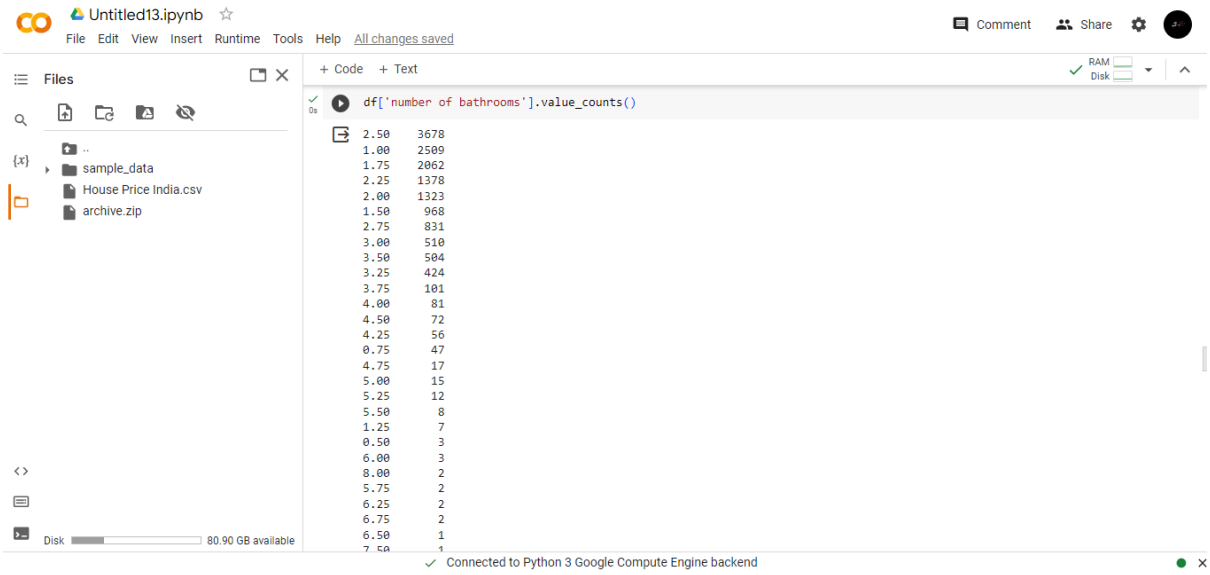
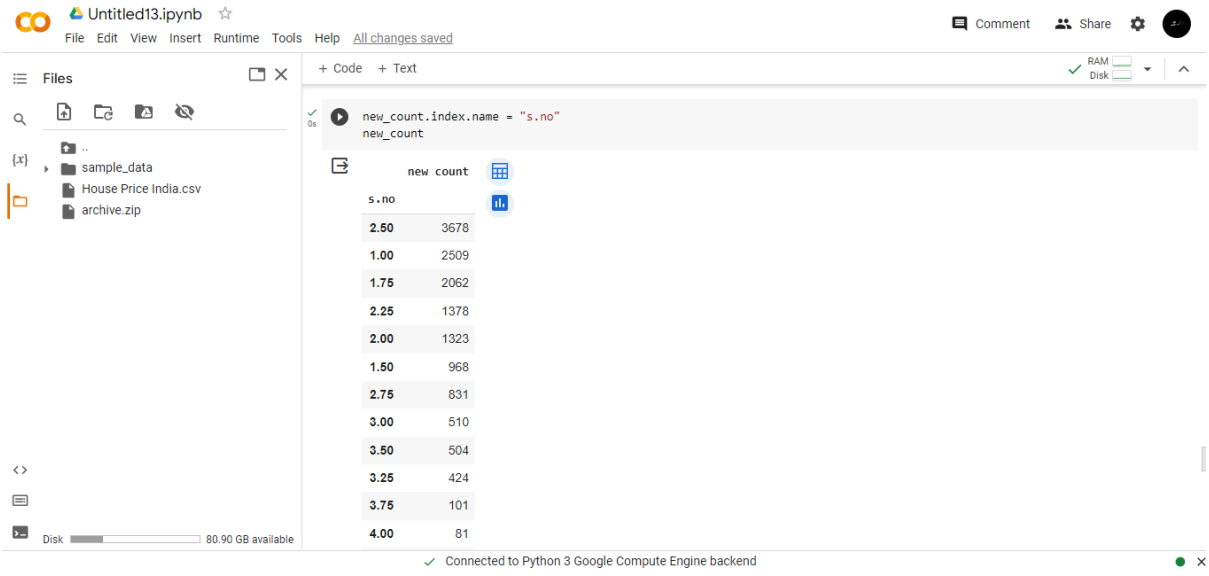
	number of bathrooms
2.50	3678
1.00	2509
1.75	2062
2.25	1378
2.00	1323
1.50	968
2.75	831
3.00	510
3.50	504
3.25	424
3.75	101
4.00	81
4.50	72

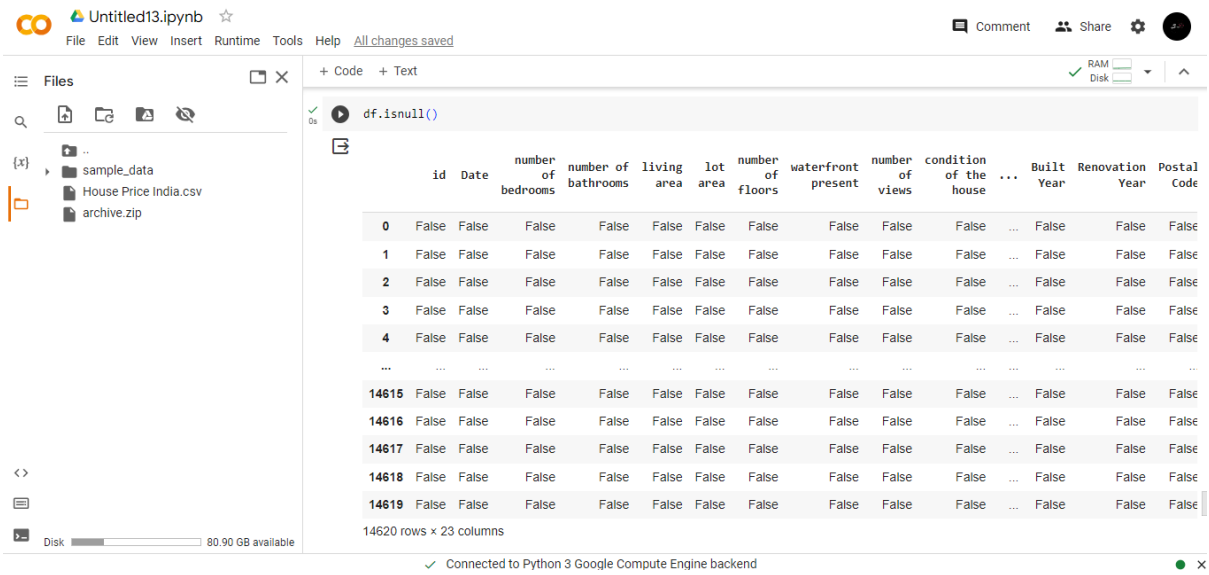



```
2.50    3678
1.00    2509
1.75    2062
2.25    1378
2.00    1323
1.50     968
2.75     831
3.00     510
3.50     504
3.25     424
3.75     101
4.00      81
4.50      72
4.25      56
0.75      47
4.75      17
5.00      15
5.25      12
5.50       8
1.25       7
0.50       3
6.00       3
8.00       2
5.75       2
6.25       2
6.75       2
6.50       1
```

	new count
2.50	3678
1.00	2509
1.75	2062
2.25	1378
2.00	1323
1.50	968
2.75	831
3.00	510
3.50	504
3.25	424
3.75	101
4.00	81
4.50	72



s.no	new count
2.50	3678
1.00	2509
1.75	2062
2.25	1378
2.00	1323
1.50	968
2.75	831
3.00	510
3.50	504
3.25	424
3.75	101
4.00	81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df.isnull()
id Date number of bedrooms number of bathrooms living area lot area number of floors waterfront present number of views condition of the house ... Built Year Renovation Year Postal Code
0 False False False False False False False False False False ... False False False
1 False False False False False False False False False False ... False False False
2 False False False False False False False False False False ... False False False
3 False False False False False False False False False False ... False False False
4 False False False False False False False False False False ... False False False
... ...
14615 False False False False False False False False False False ... False False False
14616 False False False False False False False False False False ... False False False
14617 False False False False False False False False False False ... False False False
14618 False False False False False False False False False False ... False False False
14619 False False False False False False False False False False ... False False False
14620 rows × 23 columns
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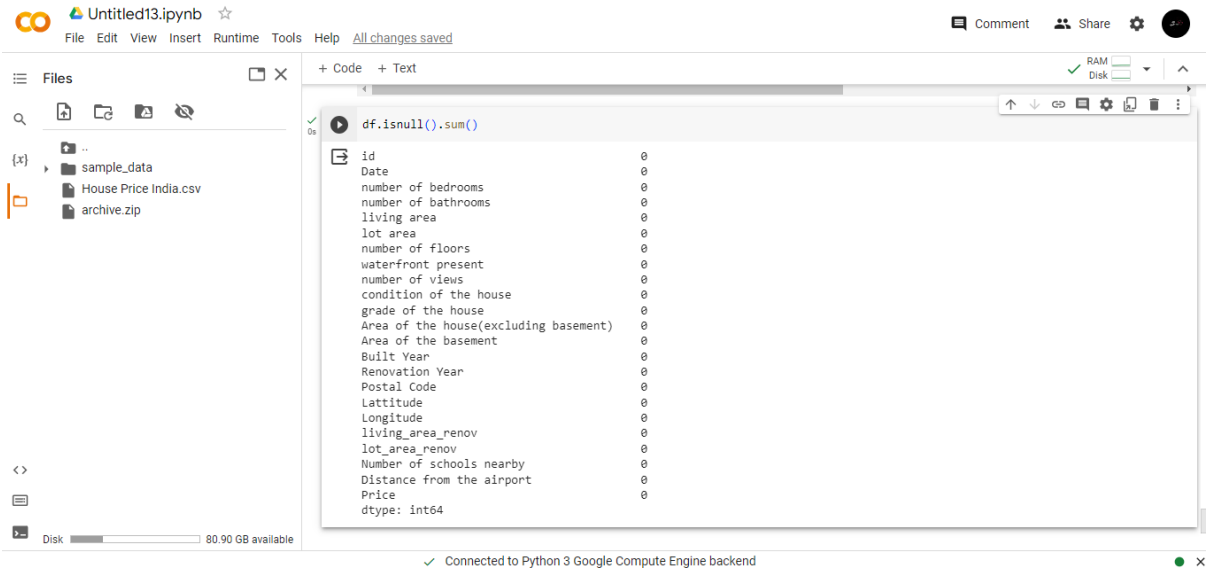
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archive.zip
df.isnull().sum()
id 0
Date 0
number of bedrooms 0
number of bathrooms 0
living area 0
lot area 0
number of floors 0
waterfront present 0
number of views 0
condition of the house 0
grade of the house 0
Area of the house(excluding basement) 0
Area of the basement 0
Built Year 0
Renovation Year 0
Postal Code 0
Lattitude 0
Longitude 0
living_area_renov 0
lot_area_renov 0
Number of schools nearby 0
Distance from the airport 0
Price 0
dtype: int64
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